

3.4.1 Carbon Dioxide Emissions for U.S. Commercial Buildings, by Year (Million Metric Tons) (1)

	Commercial			U.S.		Com.% of Total U.S.	Com.% of Total Global	
	Site Fossil	Electricity	Total	Growth Rate 2008-Year	Total	Growth Rate 2008-Year		
1980	245	409	653	-	4,723	-	14%	3.5%
1981	226	427	653	-	4,601	-	14%	3.6%
1982	226	426	653	-	4,357	-	15%	3.6%
1983	226	434	659	-	4,332	-	15%	3.6%
1984	236	455	691	-	4,561	-	15%	3.6%
1985	217	477	695	-	4,559	-	15%	3.6%
1986	216	481	698	-	4,564	-	15%	3.5%
1987	220	503	723	-	4,714	-	15%	3.5%
1988	230	531	761	-	4,939	-	15%	3.6%
1989	226	543	769	-	4,983	-	15%	3.6%
1990	224	561	785	-	5,020	-	16%	3.6%
1991	225	561	786	-	4,975	-	16%	3.7%
1992	226	561	788	-	5,069	-	16%	3.7%
1993	224	590	813	-	5,172	-	16%	3.8%
1994	226	601	828	-	5,251	-	16%	3.8%
1995	229	616	845	-	5,302	-	16%	3.8%
1996	238	638	876	-	5,488	-	16%	3.9%
1997	238	682	920	-	5,562	-	17%	4.0%
1998	220	719	940	-	5,605	-	17%	4.1%
1999	223	729	952	-	5,665	-	17%	4.1%
2000	236	777	1,013	-	5,850	-	17%	4.3%
2001	227	792	1,019	-	5,745	-	18%	4.3%
2002	229	789	1,018	-	5,790	-	18%	4.1%
2003	237	789	1,026	-	5,839	-	18%	4.0%
2004	235	809	1,043	-	5,952	-	18%	3.8%
2005	225	835	1,060	-	5,974	-	18%	3.7%
2006	205	830	1,035	-	5,894	-	18%	3.6%
2007	215	855	1,070	-	5,986	-	18%	3.6%
2008 (2)	223	844	1,067	-	5,820	-	18%	(3) 3.5%
2009	218	796	1,015	-2.0%	5,425	-8.0%	19%	3.3%
2010	213	827	1,041	0.3%	5,639	-2.2%	18%	3.4%
2011	220	811	1,031	-0.1%	5,591	-1.7%	18%	3.4%
2012	221	799	1,020	-0.4%	5,622	-1.2%	18%	3.4%
2013	223	789	1,012	-0.5%	5,656	-0.8%	18%	3.3%
2014	225	793	1,018	-0.3%	5,657	-0.7%	18%	3.4%
2015	227	795	1,022	-0.2%	5,679	-0.5%	18%	3.2%
2016	229	805	1,034	0.0%	5,703	-0.4%	18%	3.3%
2017	230	813	1,043	0.1%	5,712	-0.3%	18%	3.3%
2018	231	824	1,056	0.2%	5,727	-0.3%	18%	3.4%
2019	233	838	1,070	0.3%	5,746	-0.2%	19%	3.4%
2020	233	851	1,085	0.4%	5,774	-0.2%	19%	3.2%
2021	234	867	1,101	0.5%	5,814	-0.1%	19%	3.3%
2022	235	883	1,118	0.6%	5,835	-0.1%	19%	3.3%
2023	235	900	1,135	0.6%	5,863	0.0%	19%	3.4%
2024	236	917	1,153	0.7%	5,898	0.0%	20%	3.4%
2025	237	933	1,170	0.7%	5,931	0.0%	20%	3.2%
2026	238	947	1,185	0.8%	5,963	0.1%	20%	3.2%
2027	239	962	1,201	0.8%	5,993	0.1%	20%	3.3%
2028	240	975	1,215	0.8%	6,031	0.1%	20%	3.3%
2029	241	991	1,232	0.8%	6,063	0.1%	20%	3.4%
2030	243	1,005	1,248	0.9%	6,110	0.2%	20%	3.2%
2031	244	1,018	1,263	0.9%	6,153	0.2%	21%	3.2%
2032	246	1,031	1,277	0.9%	6,199	0.2%	21%	3.3%
2033	247	1,045	1,292	0.9%	6,235	0.2%	21%	3.3%
2034	249	1,056	1,305	0.9%	6,273	0.2%	21%	3.3%
2035	250	1,070	1,320	0.9%	6,315	0.3%	21%	3.1%

Note(s): 1) Excludes emissions of buildings-related energy consumption in the industrial sector. Emissions assume complete combustion from energy consumption and exclude energy production activities such as gas flaring, coal mining, and cement production. 2) Carbon emissions calculated from EIA, Assumptions to the AEO 2010 and differs from EIA, AEO 2011 Early Release, Table A18. Commercial sector total varies by 0.1% from EIA, AEO 2011 Early Release. 3) U.S. commercial buildings emissions approximately equal the combined carbon emissions of

Source(s): EIA, Emissions of Greenhouse Gases in the U.S. 1985-1990, Sept. 1993, Appendix B, Tables B1-B5, p. 73-74 for 1980; EIA, Emissions of Greenhouse Gases in the U.S. 2008, Dec. 2009, Tables 7-11, p. 20-24 for 1990-2007; EIA, Assumptions to the Annual Energy Outlook 2010, May 2010, Table 1.2, p. 12 for carbon coefficients; EIA, Annual Energy Outlook 2011 Early Release, Dec. 2010, Summary Reference Case Tables, Table A2, p. 3-5 for 2008-2035 energy consumption and Table A18, p. 36 for 2008-2035 emissions; EIA, International Energy Outlook 2010, July 2010, Table A10, p. 155 for 2004-2030 global emissions; and EIA, Country Energy Profiles for global emissions (1980-2007), available at <http://www.eia.gov/country/index.cfm>, accessed 2/3/2011.